

COMMUNICATION DEVICE WITH DYNAMIC DELAY COMPENSATION  
AND METHOD FOR COMMUNICATING VOICE OVER A PACKET-  
SWITCHED NETWORK

Abstract of the Disclosure

A device and method for communication of speech packets over a packet-switched network allows for a greater channel reallocation delay. Initial speech packets may be buffered during a channel reallocation delay and sent through an access medium when a channel is granted. A media access controller may  
5 transmit the buffered speech packets through the access medium at a rate exceeding a speech encoding rate. At the receiving user equipment, the initial speech packets are decoded and buffered. Speech signals representative of the initial speech packets may have a shortened time period to compensate at least in part for the channel reallocation delay. Decoded speech packets may be processed  
10 using a rate matching process at a rate which initially exceeds the speech encoding rate which may be gradually decreased to approximately the speech encoding rate. The rate matching may include dynamic time warping to substantially preserve attributes of the original speech.

"Express Mail" mailing label number: EV019077196US

Date of Deposit: February 20, 2002

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